

a position detector that measures the position of said puck in said puck field of motion.

2(Original). The pointing device of Claim 1 further comprising a restoring mechanism that returns said puck to a predetermined area in said puck field of motion.

3(Original). The pointing device of Claim 2 wherein said restoring mechanism comprises a spring connected to said puck.

4(Original). The pointing device of Claim 2 wherein said restoring mechanism comprises a first magnet on said puck and a second magnet in said puck field of motion.

5(Original). The pointing device of Claim 3 wherein said spring comprises an arcuate spring.

6(Original). The pointing device of Claim 5 wherein said arcuate spring comprises a planar spiral spring.

7(Original). The pointing device of Claim 2 wherein said restoring mechanism also applies a force that dampens oscillations in said puck position when said puck returns to said predetermined area in said puck field of motion.

8(Original). The pointing device of Claim 1 wherein said user sensor detects a change in capacitance associated with an electrode on said puck.

9(Original). The pointing device of Claim I wherein said user sensor comprises a sensor that generates a first signal indicative of a first predetermined force applied to skilling and conversion said puck by said user.

10(Original). The pointing device of Claim 9 wherein said force sensor further generates a second signal indicating that a force that is greater than a second predetermined in the restriction of the force level is being applied to said puck by said user.

11(Original). The pointing device of Claim 1 wherein said user sensor generates a signal indicative of the magnitude of a force applied to said puck by said user.

12(Original). The pointing device of Claim 1 further comprising a controller for causing a cursor to move on a display in response to said puck moving in said puck field of motion when said sensor senses said interaction between said user and said puck, the magnitude and direction of motion of said cursor being determined by the magnitude and direction of motion of said puck in said puck field of motion.

13(Original). The pointing device of Claim 12 wherein said controller does not cause said cursor to move in response to said puck moving when said sensor does not sense said interaction between said user and said puck.

14(Currently amended). The pointing device of Claim 1 wherein said position sensor detector comprises surface electrodes on said surface and a puck electrode that moves with said puck.

15(Currently amended). The pointing device of Claim 14 wherein said position sensor detector measures the capacitance between selected ones of said electrodes.

16(Currently amended). The pointing device of Claim 14 wherein said position sensor detector measures current flowing between selected ones of said electrodes.

17(Original). A pointing device comprising:

a surface having a puck field of motion defined thereon;

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a moveable puck confined to move within said puck field of motion;

a position detector that measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said puck field of the measures the position of said puck in said pu

a restoring mechanism that returns said puck to a predetermined area in said puck field of motion.

18(Original). The pointing device of Claim 2 wherein said restoring mechanism comprises a spring connected to said puck.

19(Original). The pointing device of Claim 17 wherein said restoring mechanism comprises a first magnet on said puck and a second magnet that is fixed with respect to said puck field of motion.

20(Original). The pointing device of Claim 18 wherein said spring comprises an arcuate spring.

21(Original). The pointing device of Claim 20 wherein said arcuate spring comprises a planar spiral spring.

22(Original). The pointing device of Claim 17 wherein said restoring mechanism also applies a force that dampens oscillations in said puck position when said puck returns to said predetermined area in said puck field of motion.

23(New). The pointing device of Claim 15 wherein said selected ones of said electrodes do not include said puck electrode.

24(New). A pointing device comprising:

a surface having a puck field of motion defined thereon and a plurality of surface electrodes;

comprising a puck electrode that moves over said surface electrodes, and

a position detector that measures the position of said puck in said field of motion, said measurement including measuring a capacitance between pairs of said surface electrodes.